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		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/964,069	09/25/2001	Akira Murotani	16869S-032010US	2038
20350 7590	07/19/2005		EXAMI	INER
TOWNSEND A	ND TOWNSEND ANI	AILES, BENJAMIN A		
EIGHTH FLOOR		•	ART UNIT	PAPER NUMBER
SAN FRANCISC	O, CA 94111-3834		2142	-

Please find below and/or attached an Office communication concerning this application or proceeding.

The MAILING DATE of this communication Period for Reply A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.	PLY IS SET TO EXPIRE 3 M	MUROTANI ET AL. Art Unit 2142 th the correspondence address
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THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR		
If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the maximum patent term adjustment. See 37 CFR 1.704(b).	reply within the statutory minimum of thirt iod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
tatus		•
1) Responsive to communication(s) filed on 03	3 May 2005.	
	his action is non-final.	
3) Since this application is in condition for allow		ers, prosecution as to the merits is
closed in accordance with the practice unde		
isposition of Claims		
4) Claim(s) <u>17-19,21 and 23-29</u> is/are pending	in the application.	
4a) Of the above claim(s) is/are without	• •	
5) Claim(s) is/are allowed.		
6) Claim(s) 17-19,21 and 23-29 is/are rejected	l.	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
pplication Papers		
9)☐ The specification is objected to by the Exam	iner	
10) The drawing(s) filed on is/are: a) a		hy the Examiner
Applicant may not request that any objection to t		
Replacement drawing sheet(s) including the corr	• • • • • • • • • • • • • • • • • • • •	, ,
11) The oath or declaration is objected to by the	·	• •
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore	ian priority under 35 U.S.C. &	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:	C F	
1. Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume		pplication No.
3. Copies of the certified copies of the p		· · · · · · · · · · · · · · · · · · ·
application from the International Bur		2
* See the attached detailed Office action for a l	• • • • • • • • • • • • • • • • • • • •	received.
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date ___

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other: ___

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

1. This action is in response to Amendment filed 03 May 2005.

- 2. Claims 1-16, 20, and 22 have been canceled.
- 3. Claims 17-19, 21, 23-29 are pending.

Double Patenting

4. Due to the cancellation of claims by the applicant, the prior double patenting rejection has been withdrawn.

Claim Objections

5. Due to the cancellation of claims 13 and 15 by the applicant, the prior objections to claims 13 and 15 have been withdrawn.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 8. Claims 17, 18, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sanada et al. (E.P. 0 881 560 A2), hereinafter referred to as Sanada, in view of Suzuki (U.S. 5,796,736).
- 9. Regarding claims 17 and 25, Sanada discloses a storage controller comprising: a control portion connected to fabric connected to a fiber channel port contained in an upper node device, wherein the control portion passes a packet via the fabric with the upper node device (Fig. 1 and col. 5, lines 35-41); and

a control table containing a node name of the upper node device, a port name of the fiber channel port, and a fiber channel port access enabled/disabled state (Fig. 6 and col. 10, lines 25-40). Sanada discloses the use of a control table to store identification information and the ability to update and maintain a control table (col. 10, lines 25-30 and col. 12, lines 32-38) but does not explicitly state the replacement of identification information for when the connection port is replaced. However, Suzuki discloses a network auto-discovery method wherein the network nodes are automatically recognized and connection information is automatically accessed (col. 3, lines 46-61). One of ordinary skill in art at the time of the applicant's invention would have found it obvious to combine the control table provided by Sanada et al. with the automatic discovery method of network nodes taught by Suzuki in order to keep track of all nodes in the network (Suzuki, col. 4, lines 43-48).

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10. Regarding claims 18 and 26, Sanada discloses the storage controller wherein the storage controller detects a node name of the upper node device whose connection state to the fiber channel port is changed, detects a port name of a fiber channel port to be connected to the upper node device of that node name, compares the detected port name with the port name contained in the control table (see Abstract and col. 2, lines 38-47, and col. 3, lines 21-32), and if a first port name is not detected but stored and a second port name is detected but not stored, then detects that the fiber channel port of the first port name is replaced by the fiber channel port of the second port name. Sanada et al. disclose the use of a control table to store identification information but are silent on the replacement of identification information for when the connection port is replaced. However, Suzuki disclose a network auto-discovery method wherein the network nodes are automatically recognized and connection information is automatically accessed (col. 3, lines 46-61). One of ordinary skill in art at the time of the applicant's invention would have found it obvious to combine the control table provided by Sanada et al. with the automatic discovery method of network nodes taught by Suzuki in order to keep track of all nodes in the network (Suzuki, col. 4, lines 43-48).

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- 11. Claims 19, 21, 23, 24, 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sanada.
- 12. Regarding claims 19 and 27, Sanada discloses the computer system wherein the control table is provided for each of the upper node devices (Fig. 6 and col. 2, line 48 col. 3, line 4).

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13. Regarding claims 21 and 28, Sanada discloses the storage controller wherein when a port name of a fiber channel port allowing access is entered, a node name of the upper node device to which the fiber channel port allowing access is to be connected is detected, a port name of the fiber channel port to be connected to the upper node device of that node name is detected, and the control table is created containing the node name, the port name, and the entered access enabled/disabled information (col. 2, lines 17-58).

- 14. Regarding claims 23 and 29, Sanada discloses the storage controller wherein the interface between the upper node device and the storage controller is a fiber channel standardized by ANSI X3T11 (col. 2, lines 17-23).
- 15. Regarding claim 24, Sanada discloses the storage controller wherein the a storage device having a plurality of storage domains is connected to the storage controller and the access enabled/disabled management is performed for each of the storage domains and each of the fiber channel ports (Fig. 1 and col. 10, lines 13-40).

Response to Arguments

- 16. Applicant's arguments filed 03 May 2005 have been fully considered but they are not persuasive.
- 17. (A) Applicant argues: "... there is no disclosure concerning the art of updating a control table, when the connection status of the input/output port was changed."
- 18. As to point (A), the Examiner respectfully disagrees. Sanada discloses the ability to update and maintain a control table in column 12, lines 27-38. Sanada discloses a

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control table wherein information is stored and a user may update information. The information is maintained and stored in the control table using computers.

- 19. (B) Applicant argues: "... there is no disclosure concerning the art of updating a control table, when the connection status of the input/output port was changed."
- 20. As to point (B), applicant is referred to the explanation of point (A) and the above prior art rejections.
- 21. (C) Applicant argues: "there is no disclosure that a control table includes identification information of upper node device, identification information of input/output port of the upper node device and information concerning access enabled or access disabled."
- 22. As to point (C), the Examiner respectfully disagrees. Sanada discloses in figure 8 the use of a control table organized to record identification information of the upper node device, identification information of the input/output port and in figure 9 the steps taken to determine information used to determine accessibility.

Conclusion

- 23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 24. Blumenau et al. (U.S. 6,845,395) disclose a method and apparatus for identifying network devices on a storage network.
- 25. Hubis (U.S. 2005/0050191) discloses storage network and method for storage network device mapping.

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26. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A. Ailes whose telephone number is (571)272-3899. The examiner can normally be reached on M-F 7:30-5, First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571)272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BAA